



PATENT--FEE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: ) I hereby certify that this  
ALAIN CLAUDE-MARIE DAUGAN ) paper is being deposited  
Patent No. 6,784,179 ) with the United States  
Issued: August 31, 2004 ) Postal Service with suffi-  
Serial No. 10/068,114 ) cient postage, as first  
Filed: February 5, 2002 ) class mail, in an envelope  
For: TETRACYCLIC DERIVATIVES, ) addressed to:  
PROCESS OF PREPARATION AND USE )  
Attorney Docket No. 29342/38166 ) Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450.  
Dated: March 14, 2005  
James J. Napoli  
Registration No. 32,361  
Attorney for Applicants

REQUEST FOR CERTIFICATE OF  
CORRECTION UNDER RULES 322(a) & 323

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**Certificate**  
**MAR 22 2005**  
**of Correction**

Patentees respectfully request a Certificate of Correction to be issued for the above-identified U.S. Patent correcting the patent as noted in the attached "Certificate of Correction" form PTO 1050. Duplicate copies of the form are attached hereto.

Errors in the patent can be verified by reference to the application as follows:

03/18/2005 HDEMESS1 00000007 6784179

01 FC:1811

100.00 OP

MAR 22 2005



Appln. Page #	Appln. Line #	Column #	Line #	Error by
		Title page	First column (30)	PTO
Abstract		First page	Second column, 3rd line from bottom	PTO
1	7	1	23	PTO
5	8	4	41	PTO
5	24	4	64	PTO
5	31	5	4	PTO
6	1	5	6	PTO
6	5	5	12	PTO
7	6	5	64	PTO
10	25	8	49	PTO
13	6	10	28	PTO
16	4	12	27	PTO
16	26	12	50	PTO
16	34	12	58	PTO
17	15, 16	13	8	PTO
18	10	13	42	PTO
18	30, 31	13	62	PTO
19	2	14	2	Applicant
19	23	14	24	PTO
20	19, 20	14	53, 54	PTO
20	32	14	67	PTO
21	1	15	2, 3	PTO
22	30	15	66	PTO
23	1	16	5	PTO
23	2	16	6	PTO
23	13	16	20	PTO
24	5	16	48	PTO
24	11	16	54	Applicant
24	26	17	5	PTO
24	29	17	8	PTO
25	32	17	48	PTO
26	15	17	65	PTO
27	19	18	44	PTO
28	20	19	20, 21	PTO
29	1	19	38	Applicant
29	10	19	50	PTO
30	10	20	25	PTO
31	11	20	67	Applicant
31	13	21	2	PTO
31	20, 21	21	10	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
31	24	21	15	Applicant
32	27	21	57	PTO
33	2	22	3	PTO
33	13	22	16	PTO
33	22	22	24, 25	PTO
33	32	22	35	PTO
34	9	22	48	PTO
34	19, 20	22	59	PTO
35	16	23	26	PTO
35	29	23	39	Applicant
35	30	23	41, 42	PTO
36	33	24	19	PTO
37	19	24	42	PTO
37	30	24	56	PTO
38	1	24	63	PTO
38	5	24	66	PTO
38	8	25	3	PTO
38	14	25	9	PTO
39	19	25	54	PTO
39	29	25	65	PTO
39	33	26	4	PTO
40	11	26	11	Applicant
41	9, 10	26	54, 55	PTO
41	20	26	66	PTO
41	29	27	9, 10	PTO
43	5	27	62	Applicant
43	29	28	22	PTO
44	4	28	34	PTO
45	9	29	9	PTO
45	10	29	10	PTO
45	29	29	31	PTO
46	10	29	48	PTO
46	28	29	66	PTO
47	14	30	22	Applicant
47	18	30	28	PTO
48	9	30	54	PTO
48	30	31	7	PTO
49	15	31	30	PTO
49	25	31	41	PTO
51	4	32	27, 28	PTO
51	28	32	53	PTO
51	32	32	57	Applicant
52	2	32	60	PTO

Appln. Page #	Appln. Line #	Column #	Line #	Error by
52	6	32	65	PTO
52	28	33	23	PTO
53	6	33	38	PTO
53	7	33	39	PTO
53	17	33	51	PTO
54	1	34	7	PTO
54	11	34	17	PTO
54	31	34	39	PTO
55	7	34	50	PTO
55	33	35	11	PTO
55-56	35-1	35	15	PTO
57	26	36	8	PTO
57	32	36	16	Applicant
58	24	36	42	PTO
58	28	36	46	PTO
58	29	36	48	Applicant
58	30	36	50	PTO
59	2	36	55	PTO
59	5	36	57, 58	PTO
59	29	37	14, 15	PTO
60	8	37	28	PTO
60	14	37	36	Applicant
60	19	37	39, 40	PTO
60	26	37	49	Applicant
60	31	37	53, 54	PTO
61	9	37	65	PTO
61	34	38	22	PTO
63	3, 4	38	66	PTO
63	31	39	30	PTO
65	10	40	20	PTO
65	10	40	21	PTO
65	21	40	34	PTO
65	32	40	46	PTO
66	10	40	57, 58	PTO
66	11	40	59	PTO
67	21	41	37	PTO
68	22	42	10	PTO
68	33, 34	42	23, 24	PTO
69	1	42	27	PTO
69	2	42	28	PTO
69	15	42	41	PTO
69	23	42	49	PTO
70	5	43	1	PTO

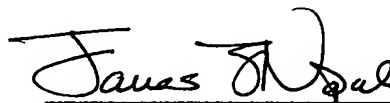
Appln. Page #	Appln. Line #	Column #	Line #	Error by
70	20	43	21	Applicant
70	22	43	23	PTO
70	33	43	36	PTO
71	19	43	62	PTO
72	15	44	44	PTO
75	2, 3	45	63	PTO
75	12	46	6	PTO

Our check in the amount of \$100.00 to correct the error(s) by patentee(s) is submitted herewith.

Respectfully submitted,

**MARSHALL, GERSTEIN & BORUN LLP**

By



James J. Napoli  
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Chicago, Illinois  
March 14, 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, First Column, (30) Foreign Application Priority Data, "9401090" should be -- 9401090.7 --

Title Page, First Column, U.S. Patent Documents, Fourth reference, "514/269" should be -- 514/267 --

Abstract, first page, second column, 3rd line from bottom, "(CGMP" should be -- (cGMP- --

Column 1, line 23, "CGMP" should be -- cGMP --

Column 4, line 41, "R<sup>1</sup>" should be -- R<sup>1</sup>, --

Column 4, line 64, "5yl)" should be -- 5-yl) --

Column 5, line 4, "methylenedioxyphenyl)pyrazino" should be -- methylenedioxyphenyl)-pyrazino --

Column 5, line 6, "cyclopentyl(3,4-" should be -- cyclopentyl-6-(3,4- --

Column 5, line 12, "Hexahydro-6(3-" should be -- Hexahydro-6-(3- --

MAILING ADDRESS OF SENDER:  
James J. Napoli, Ph.D.  
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Column 5, line 64, "a compound of formula (I)," should be  
-- 'a compound of Formula (I)' --

Column 8, line 49, "cis i" should be -- cis isomers --

Column 10, line 28, "(VII)" should be -- (VIII) --

Column 12, line 27, "ethoxyphenyl" should be -- methoxyphenyl --

Column 12, line 50, "5yl)" should be - 5-yl) --

Column 12, line 58, "ethylenedioxyphenyl" should be -- ethylenedioxyphenyl) --

Column 13, line 8, "4-2, chlorobenzaldehyde" should be -- 4-chlorobenzaldehyde --

Column 13, line 42, "H4);" should be - -H-4; --

Column 13, line 62, "indole-carboxylate" should be -- indole-3-carboxylate --

Column 14, line 2, "thienyl))" should be -- thienyl) --

Column 14, line 24, "H4);" should be -- H-4); --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, lines 53-54, "4-cyanophenyl)-9H-pyrido[3,4-b]indol-" should be -- (4-cyanophenyl)-9H-pyrido[3,4-b]indole- --

Column 14, line 67, "H4)." should be -- H-4). --

Column 15, lines 2-3, "methoxyphenyl)9H" should be -- methoxyphenyl)-9H --

Column 15, line 66, "[3,4b]" should be -- [3,4-b] --

Column 16, line 5, "H4)" should be -- H-4) --

Column 16, line 6, "Solid" should be -- solid --

Column 16, line 20, "NaHCO3" should be -- NaHCO<sub>3</sub> --

Column 16, line 48, "m.p. 219" should be -- m.p.: 219 --

Column 16, line 54, "methoxyphenyl) 9H" should be -- methoxyphenyl)-9H --

Column 17, line 5, "m.p. 204°C." should be -- m.p.: 204°C. --

Column 17, line 8, "pyridof" should be -- pyrido --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21, line 57, "methylenedioxyohenyl" should be -- methylenedioxyphenyl --

Column 22, line 3, "Oil" should be - -oil --

Column 22, line 16, "m.p. 253" should be - -m.p.: 253 --

Column 22, lines 24-25, "-6-4-methoxyphenyl)" should be -- -6-(4-methoxyphenyl) --

Column 22, line 35, "2-methyl(3,4-" should be -- 2-methyl-6-(3,4- --

Column 22, line 48, "methylenedioxyohenyl" should be -- methylenedioxyphenyl --

Column 22, line 59, "-2-2,2,2-trifluoroethyl)-" should be -- -2-(2,2,2-trifluoroethyl)- --

Column 23, line 26, "2-methyl(3,4-" should be -- 2-methyl-6-(3,4- --

Column 23, line 39, "[2',1'-6,1]" should be -- [2',1':6,1] --

Column 23, lines 41-42, "2-2-pyridyl)" should be -- 2-(2-pyridyl) --

Column 24, line 19, "methylenedioxyrhenyl" should be -- methylenedioxyphenyl --

Column 24, line 42, "-6-3,4-" should be -- -6-(3,4- --

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PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24, line 56, "indole-1.4" should be -- indole-1,4 --

Column 24, line 63, "0.21%." should be -- 10.21% --

Column 24, line 66, "pyazino" should be -- pyrazino --

Column 25, lines 3, 4, "m.p. 290" should be -- m.p.: 290° --

Column 25, line 9, "2-butyl(3,4-" should be -- 2-butyl-6-(3,4- --

Column 25, line 54, "-6-3,4-" should be -- -6-(3,4- --

Column 25, line 65, "-6-3,4- methylenedioxyphenyl)-" should be  
-- -6-(3,4- methylenedioxyphenyl)- --

Column 26, line 4, "m.p. 285" should be -- m.p.: 285 --

Column 26, line 19, "C69.54;" should be -- C, 69.54; --

Column 26, lines 54-55, "-2-2,2,2-trifluoroethyl)pyrazino[2'1':6,1]" should be  
-- -2-(2,2,2-trifluoroethyl)pyrazino[2',1':6,1] --

Column 26, line 66, "Pyrazino" should be -- pyrazino --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 27, lines 9-10, "-6-4-methoxyphenyl)" should be -- -6-(4-methoxyphenyl) --

Column 27, line 62, "70.93." should be -- 70.93; --

Column 28, line 22, "-6-2,3-" should be -- -6-(2,3- --

Column 28, line 34, "(3,4ethylenedioxyphenyl)" should be -- (3,4-ethylenedioxyphenyl) --

Column 29, line 9, "-6-4-chlorophenyl)" should be -- -6-(4-chlorophenyl) --

Column 29, line 10, "1,4dione" should be -- 1,4-dione --

Column 29, line 31, "[2'1':6,1]" should be -- [2',1':6,1] --

Column 29, line 48, "m.p. 193" should be -- m.p.: 193 --

Column 29, line 66, "-6-naphthyl-" should be -- -6-naphthyl) --

Column 30, line 22, "naphthyl))" should be -- naphthyl) --

Column 30, line 28, "(0.25 H<sub>2</sub>O);" should be -- (0.25 H<sub>2</sub>O): --

Column 30, line 54, "-6-bromo" should be -- -6-(5-bromo --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 31, line 7, "[3,4b]" should be -- [3,4-b] --  
Column 31, line 30, "[2'140:6,1]" should be -- [2',1':6,1] --  
Column 31, line 41, "[2'140:6,1]" should be -- [2',1':6,1] --  
Column 32, line 28, "(4-methylphenyl-" should be -- (4-methylphenyl)- --  
Column 32, line 53, "methano" should be -- methanol --  
Column 32, line 57, "C, 71.42.H," should be -- C, 71.42; H, --  
Column 32, line 60, "[3,4-b]" should be -- [3,4-b] --  
Column 32, line 65, "H<sub>21</sub>" should be -- H<sub>21</sub> --  
Column 33, line 23, "19.50%" should be -- 9.5% --  
Column 33, line 38, "hexahydro--6" should be -- hexahydro-6 --  
Column 33, line 39, "[3,4b]" should be -- [3,4-b] --

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INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33, line 51, "indole-1.4-dione" should be -- indole-1, 4-dione --

Column 34, line 7, "-6-ethylphenyl)-" should be -- -6-(4-ethylphenyl)- --

Column 34, line 17, "(4 ethylphenyl)" should be -- (4-ethylphenyl) --

Column 34, line 39, "-6-4-nitrophenyl)-" should be -- -6-(4-nitrophenyl)- --

Column 34, line 50, "[3,4-b]" should be -- [3,4-b] --

Column 35, line 11, "NaHCO3." should be -- NaHCO<sub>3</sub> --

Column 35, line 15, "-1-3,4-methylenedioxyphenyl)-" should be  
-- -1-(3,4-methylenedioxyphenyl) --

Column 36, line 8, "methylenedioxyphenyl)" should be -- methylenedioxyphenyl) --

Column 36, line 16, "C, 70.13.H, 5.67.N, 9.42%." should be -- C, 70.13; H, 5.67; N, 9.42%. --

Column 36, line 42, "[α]<sub>D</sub><sup>20</sup> +54.1°" should be -- [α]<sub>D</sub><sup>20</sup> = 54.1° --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 36, line 46, "[3,4b]" should be -- [3,4-b] --

Column 36, line 48, "buylamine" should be -- butylamine --

Column 36, line 50, "2propanol" should be -- 2-propanol --

Column 36, line 55, "45.40°" should be -- 45.4° --

Column 36, lines 57-58, "cyclopentyl(4-methoxyphenyl)-" should be  
-- cyclopentyl-6-(4-methoxyphenyl)- --

Column 37, lines 14-15, "-6-3-chloro-" should be -- -6-(3-chloro- --

Column 37, line 28, "[3,4b]" should be -- [3,4-b] --

Column 37, line 36, "Cl 8.33." should be -- Cl, 8.33; --

Column 37, lines 39-40, "-6-3-chloro-" should be -- -6-(3-chloro- --

Column 37, line 49, "H, 5.57.N," should be -- H, 5.57; N --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 37, lines 53-54, "Hexahydro-6-(2,3-dihydrobenzo[b]furan-5-yl)" should be -- Hexahydro-6-(2,3-dihydrobenzo[b]furan-5-yl) --

Column 37, line 65, "dihydmbenzo" should be -- dihydrobenzo --

Column 38, line 22, "6-5-Indanyl)" should be -- -6-(5-indanyl) --

Column 38, line 66, "-6-3,4-" should be -- -6-(3,4- --

Column 39, line 30, "[3,4b]" should be -- [3,4-b] --

Column 40, line 20, "(6R, 12aR)2," should be -- (6R, 12aR)-2, --

Column 40, line 21, "-6-t3,4-" should be -- -6-(3,4- --

Column 40, line 34, "-6-3,4-" should be -- -6-(3,4- --

Column 40, line 46, "-6-3,4-" should be -- -6-(3,4- --

Column 40, lines 57-58, "-6-3,4-methylenedioxypheny)-2(2-" should be -- -6-(3,4-methylenedioxyphenyl)-2-(2- --

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Column 40, line 59, "1,4-ione" should be -- 1,4-dione --

Column 41, line 37, "-6-5(N-" should be -- -6-(5-(N- --

Column 42, line 10, "(6RP" should be -- (6R, --

Column 42, lines 23-24, "12-3,4-methylenedioxyphenyl)-pyrolo[1"2":4',5"]" should be -- 12-(3,4-methylenedioxyphenyl)-pyrolo[1",2":4',5'] --

Column 42, line 27, "methano" should be -- methanol --

Column 42, line 28, "PdC" should be -- Pd-C --

Column 42, line 41, "-12-3,4-" should be -- -12-(3,4- --

Column 42, line 49, "dichloromethanelmethanol" should be -- dichloromethane/methanol --

Column 43, line 1, "methanol 99/1." should be -- methanol: 99/1. --

Column 43, line 21, "(2,25 mL)" should be -- (2.25) mL) --

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Column 43, line 23, "methanol 99/1." should be -- methanol: 99/1. --

Column 43, line 36, "ethano" should be -- ethanol --

Column 43, line 62, "-61.1°" should be -- +61.1° --

Column 44, line 44, "and for" should be -- and/or --

Column 45, line 63, "250; ug/ml 5'Nucieotidase,"  
should be -- 250ug/ml 5'Nucleotidase --

Column 46, line 6, "101µM." should be -- 10 µM. --

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Title Page, First Column, (30) Foreign Application Priority Data, "9401090" should be -- 9401090.7 --

Title Page, First Column, U.S. Patent Documents, Fourth reference, "514/269" should be -- 514/267 --

Abstract, first page, second column, 3rd line from bottom, "(CGMP" should be -- (cGMP- --

Column 1, line 23, "CGMP" should be -- cGMP --

Column 4, line 41, "R<sup>1</sup>" should be -- R<sup>1</sup>, --

Column 4, line 64, "5yl)" should be -- 5-yl) --

Column 5, line 4, "methylenedioxyphenyl)pyrazino" should be -- methylenedioxyphenyl)-pyrazino --

Column 5, line 6, "cyclopentyl(3,4-" should be -- cyclopentyl-6-(3,4- --

Column 5, line 12, "Hexahydro-6(3-" should be -- Hexahydro-6-(3- --

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PATENT NO.: 6,784,179

No. of additional copies: 1

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 64, "a compound of formula (I)," should be  
-- 'a compound of Formula (I)' --

Column 8, line 49, "cis i" should be -- cis isomers --

Column 10, line 28, "(VII)" should be -- (VIII) --

Column 12, line 27, "ethoxyphenyl" should be -- methoxyphenyl --

Column 12, line 50, "5yl)" should be - 5-yl) --

Column 12, line 58, "ethylenedioxyphenyl" should be -- ethylenedioxyphenyl) --

Column 13, line 8, "4-2, chlorobenzaldehyde" should be -- 4-chlorobenzaldehyde --

Column 13, line 42, "H4);" should be - -H-4; --

Column 13, line 62, "indole-carboxylate" should be -- indole-3-carboxylate --

Column 14, line 2, "thienyl))" should be -- thienyl) --

Column 14, line 24, "H4);" should be -- H-4); --

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DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, lines 53-54, "4-cyanophenyl)-9H-pyrido[3,4-b]indol-" should be -- (4-cyanophenyl)-9H-pyrido[3,4-b]indole- --

Column 14, line 67, "H4)." should be -- H-4). --

Column 15, lines 2-3, "methoxyphenyl)9H" should be -- methoxyphenyl)-9H --

Column 15, line 66, "[3,4b]" should be -- [3,4-b] --

Column 16, line 5, "H4)" should be -- H-4) --

Column 16, line 6, "Solid" should be -- solid --

Column 16, line 20, "NaHCO<sub>3</sub>" should be -- NaHCO<sub>3</sub> --

Column 16, line 48, "m.p. 219" should be -- m.p.: 219 --

Column 16, line 54, "methoxyphenyl) 9H" should be -- methoxyphenyl)-9H --

Column 17, line 5, "m.p. 204°C." should be -- m.p.: 204°C. --

Column 17, line 8, "pyridof" should be -- pyrido --

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PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17, line 48, "NaHCO3," should be -- NaHCO<sub>3</sub>, --

Column 17, line 65, "-1-3,4-" should be -- -1-(3,4- --

Column 18, line 44, "84.40°" should be -- 84.4° --

Column 19, lines 20, 21, "methylenedioxyphenyl-9H" should be  
-- methylenedioxyphenyl)-9H --

Column 19, line 38, "dropwide" should be -- dropwise --

Column 19, line 50, "methylenedioxyphenyl-9H" should be -- methylenedioxyphenyl)-9H --

Column 20, line 25, "m.p. 124" should be -- m.p.: 124 --

Column 20, line 67, "0,35 g" should be -- 0.35 g --

Column 21, line 2, "dicyciohexylurea" should be -- dicyclohexylurea --

Column 21, line 10, "-1-3,4- methylenedioxyphenyl" should be  
-- -1-(3,4- methylenedioxyphenyl --

Column 21, line 15, "0,7 g" should be -- 0.7 g --

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PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21, line 57, "methylenedioxyphenyl" should be -- methylenedioxyphenyl --

Column 22, line 3, "Oil" should be - -oil - -

Column 22, line 16, "m.p. 253" should be - -m.p.: 253 - -

Column 22, lines 24-25, "-6-4-methoxyphenyl)" should be -- -6-(4-methoxyphenyl) --

Column 22, line 35, "2-methyl(3,4-" should be -- 2-methyl-6-(3,4- --

Column 22, line 48, "methylenedioxyphenyl" should be -- methylenedioxyphenyl --

Column 22, line 59, "-2-2,2,2-trifluoroethyl)-" should be -- -2-(2,2,2-trifluoroethyl)- --

Column 23, line 26, "2-methyl(3,4-" should be -- 2-methyl-6-(3,4- --

Column 23, line 39, "[2',1'-6,1]" should be -- [2',1':6,1] --

Column 23, lines 41-42, "2-2-pyridyl)" should be -- 2-(2-pyridyl) --

Column 24, line 19, "methylenedioxyrhenyl" should be -- methylenedioxyphenyl --

Column 24, line 42, "-6-3,4-" should be -- -6-(3,4- --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24, line 56, "indole-1.4" should be -- indole-1,4 --

Column 24, line 63, "0.21%." should be -- 10.21% --

Column 24, line 66, "pyazino" should be -- pyrazino --

Column 25, lines 3, 4, "m.p. 290" should be -- m.p.: 290° --

Column 25, line 9, "2-butyl(3,4-" should be -- 2-butyl-6-(3,4- --

Column 25, line 54, "-6-3,4-" should be -- -6-(3,4- --

Column 25, line 65, "-6-3,4- methylenedioxyphenyl)-" should be  
-- -6-(3,4- methylenedioxyphenyl)- --

Column 26, line 4, "m.p. 285" should be -- m.p.: 285 --

Column 26, line 19, "C69.54;" should be -- C, 69.54; --

Column 26, lines 54-55, "-2-2,2,2-trifluoroethyl)pyrazino[2'1':6,1]" should be  
-- -2-(2,2,2-trifluoroethyl)pyrazino[2',1':6,1] --

Column 26, line 66, "Pyrazino" should be -- pyrazino --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 27, lines 9-10, "-6-4-methoxyphenyl)" should be -- -6-(4-methoxyphenyl) --

Column 27, line 62, "70.93." should be -- 70.93; --

Column 28, line 22, "-6-2,3-" should be -- -6-(2,3- --

Column 28, line 34, "(3,4-ethylenedioxyphenyl)" should be -- (3,4-ethylenedioxyphenyl) --

Column 29, line 9, "-6-4-chlorophenyl)" should be -- -6-(4-chlorophenyl) --

Column 29, line 10, "1,4dione" should be -- 1,4-dione --

Column 29, line 31, "[2'1':6,1]" should be -- [2',1':6,1] --

Column 29, line 48, "m.p. 193" should be -- m.p.: 193 --

Column 29, line 66, "-6-naphthyl-" should be -- -6-naphthyl) --

Column 30, line 22, "naphthyl))" should be -- naphthyl) --

Column 30, line 28, "(0.25 H<sub>2</sub>O);" should be -- (0.25 H<sub>2</sub>O): --

Column 30, line 54, "-6-bromo" should be -- -6-(5-bromo --

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PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 31, line 7, "[3,4b]" should be -- [3,4-b] --  
Column 31, line 30, "[2'140:6,1]" should be -- [2',1':6,1] --  
Column 31, line 41, "[2'140:6,1]" should be -- [2',1':6,1] --  
Column 32, line 28, "(4-methylphenyl-" should be -- (4-methylphenyl)- --  
Column 32, line 53, "methano" should be -- methanol --  
Column 32, line 57, "C, 71.42.H," should be -- C, 71.42; H, --  
Column 32, line 60, "[3,4-b[" should be -- [3,4-b] --  
Column 32, line 65, "H<sub>21</sub>" should be -- H<sub>21</sub> --  
Column 33, line 23, "19.50%" should be -- 9.5% --  
Column 33, line 38, "hexahydro--6" should be -- hexahydro-6 --  
Column 33, line 39, "[3,4b]" should be -- [3,4-b] --

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33, line 51, "indole-1.4-dione" should be -- indole-1, 4-dione --

Column 34, line 7, "-6-ethylphenyl)-" should be -- -6-(4-ethylphenyl)- --

Column 34, line 17, "(4 ethylphenyl)" should be -- (4-ethylphenyl) --

Column 34, line 39, "-6-4-nitrophenyl)-" should be -- -6-(4-nitrophenyl)- --

Column 34, line 50, "[3,4-b]" should be -- [3,4-b] --

Column 35, line 11, "NaHCO3." should be -- NaHCO<sub>3</sub> --

Column 35, line 15, "-1-3,4-methylenedioxyphenyl)-" should be  
-- -1-(3,4-methylenedioxyphenyl) --

Column 36, line 8, "methylenedioxyphenyl)" should be -- methylenedioxyphenyl) --

Column 36, line 16, "C, 70.13.H, 5.67.N, 9.42%." should be -- C, 70.13; H, 5.67; N, 9.42%. --

Column 36, line 42, "[ $\alpha$ ]<sub>D</sub><sup>20</sup>+54.1°" should be -- [ $\alpha$ ]<sub>D</sub><sup>20</sup>= 54.1° --

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PATENT NO. : 6,784,179  
DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 36, line 46, "[3,4b]" should be -- [3,4-b] --

Column 36, line 48, "buylamine" should be -- butylamine --

Column 36, line 50, "2propanol" should be -- 2-propanol --

Column 36, line 55, "45.40°" should be -- 45.4° --

Column 36, lines 57-58, "cyclopentyl(4-methoxyphenyl)-" should be  
-- cyclopentyl-6-(4-methoxyphenyl)- --

Column 37, lines 14-15, "-6-3-chloro-" should be -- -6-(3-chloro- --

Column 37, line 28, "[3,4b]" should be -- [3,4-b] --

Column 37, line 36, "Cl 8.33." should be -- Cl, 8.33; --

Column 37, lines 39-40, "-6-3-chloro-" should be -- -6-(3-chloro- --

Column 37, line 49, "H, 5.57.N," should be -- H, 5.57; N --

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DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 37, lines 53-54, "Hexahydro-6-(2,3-dihydrobenzo[b]furan-5-yl)" should be -- Hexahydro-6-(2,3-dihydrobenzo[b]furan-5-yl) --

Column 37, line 65, "dihydmbenzo" should be -- dihydrobenzo --

Column 38, line 22, "6-5-Indanyl)" should be -- -6-(5-indanyl) --

Column 38, line 66, "-6-3,4-" should be -- -6-(3,4- --

Column 39, line 30, "[3,4b]" should be -- [3,4-b] --

Column 40, line 20, "(6R, 12aR)2," should be -- (6R, 12aR)-2, --

Column 40, line 21, "-6-t3,4-" should be -- -6-(3,4- --

Column 40, line 34, "-6-3,4-" should be -- -6-(3,4- --

Column 40, line 46, "-6-3,4-" should be -- -6-(3,4- --

Column 40, lines 57-58, "-6-3,4-methylenedioxypheny)-2(2-" should be -- -6-(3,4-methylenedioxyphenyl)-2-(2- --

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INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 40, line 59, "1,4-ione" should be -- 1,4-dione --

Column 41, line 37, "-6-5(N-" should be -- -6-(5-(N- --

Column 42, line 10, "(6RP" should be -- (6R, --

Column 42, lines 23-24, "12-3,4-methylenedioxyphenyl)-pyrolo[1"2":4',5"]"  
should be -- 12-(3,4-methylenedioxyphenyl)-pyrolo[1",2":4',5'] --

Column 42, line 27, "methano" should be -- methanol --

Column 42, line 28, "PdC" should be -- Pd-C --

Column 42, line 41, "-12-3,4-" should be -- -12-(3,4- --

Column 42, line 49, "dichloromethanelmethanol"  
should be -- dichloromethane/methanol --

Column 43, line 1, "methanol 99/1." should be -- methanol: 99/1. --

Column 43, line 21, "(2,25 mL)" should be -- (2.25) mL) --

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DATED : August 31, 2004  
INVENTOR(S) : Daugan

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 43, line 23, "methanol 99/1." should be -- methanol: 99/1. --

Column 43, line 36, "ethano" should be -- ethanol --

Column 43, line 62, "-61.1°" should be -- +61.1° --

Column 44, line 44, "and for" should be -- and/or --

Column 45, line 63, "250; ug/ml 5'Nucieotidase,"  
should be -- 250ug/ml 5'Nucleotidase --

Column 46, line 6, "101µM." should be -- 10 µM. --

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